ABSTRACT OF THE DISCLOSURE

MANAGING FAILOVER OF J2EE COMPLIANT MIDDLEWARE IN A HIGH AVAILABILITY SYSTEM

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A method, system, and program for managing failover of J2EE compliant middleware in a high availability system are provided. A primary node and a secondary node each run the same J2EE compliant middleware stack comprising layers including a load balancer, a web server, a web application server, a message control server, a monitoring server, and a database control

10   server. In the primary node, all layers are active. In the secondary node, part of the layers are active and part of the layers are in standby. A data replication partition shared between the primary node and the secondary node includes persistent resource data accessible to a selection of the layers of the primary node. A heartbeat controller monitors each node, including the middleware stack, and upon detection of a failure, controls transfer of the services provided by

15   the primary node to the secondary node by transferring virtual IP addresses from the primary node to the secondary node, remounting the data replication partition for access by the secondary node, and activating the standby layers which require access to the data in the data replication partition.

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